

(19) 世界知的所有権機関
国際事務局



(43) 国際公開日
2004 年 7 月 15 日 (15.07.2004)

PCT

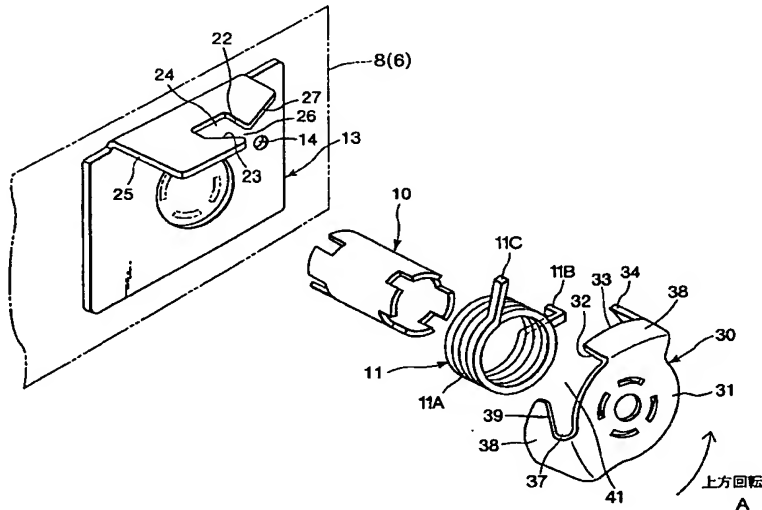
(10) 国際公開番号
WO 2004/058008 A1

- (51) 国際特許分類⁷: A47C 7/54 (72) 発明者; および
(21) 国際出願番号: PCT/JP2003/016594 (75) 発明者/出願人 (米国についてのみ): 大森 操
(22) 国際出願日: 2003 年 12 月 24 日 (24.12.2003) (OMORI, Misao) [JP/JP]; 〒329-1217 栃木県 塩谷郡 高
(25) 国際出願の言語: 日本語 根沢町 大字 太田 字 治部 沢 1 1 8-1 ティ・エス・テッ
(26) 国際公開の言語: 日本語 ク株式会社 技術センター内 Tochigi (JP).
(30) 優先権データ: 特願 2002-378522 (74) 代理人: 新関 淳一郎 (NIIZEKI, Junichiro); 〒160-0023
2002 年 12 月 26 日 (26.12.2002) JP 東京都 新宿区 西新宿 6 丁目 6 番 3 号 新関宏太郎国
(71) 出願人 (米国を除く全ての指定国について): ティ・ 際特許事務所 Tokyo (JP).
エス・テック株式会社 (TS TECH CO., LTD.) [JP/JP];
〒351-0012 埼玉県 朝霞市 栄町 3 丁目 7 番 2 7 号
Saitama (JP). (81) 指定国 (国内): AE, AG, AL, AM, AT, AU, AZ, BA, BB,
BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE,
DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM,
HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,

[続葉有]

(54) Title: ARMREST HEIGHT-ADJUSTING DEVICE

(54) 発明の名称: アームレストの高さ調節装置



A...UPWARD TURN

(57) Abstract: An armrest height-adjusting device has a collar (10) fixed to an arm frame (8) and a spring (11). The spring (11) includes a coil portion (11A) provided on the outer periphery of the collar (10), a first leg portion (11B) engaging with a seatback frame (5), and a second leg portion (11C) received in a window portion (41) of the arm frame (8). The diameter of the coil portion (11A) is reduced when the arm frame (8) is turned downward and increased when the arm frame (8) is turned upward. When the arm frame (8) is turned upward beyond a predetermined position, the second leg portion (11C) comes into contact with the window portion (41), which causes the second leg portion to be moved into a hook (24) of the seatback frame (5). While the second leg portion (11C) is engaged with the hook (24), the diameter of the coil portion (11A) is maintained increased.

(57) 要約: 本アームレストの高さ調節装置は、アームフレーム 8 に固定されたカラー 10 と、スプリング 11 とを有する。スプリング 11 はカラー 10 の外周に配設されコイル部 11A と、シートバックフレーム 5 に係合する第 1 脚部 11B と、前記アームフレーム 8 の窓部 41 内に収納される第 2 脚部 11C とを有する。前記コイル部 11A は

[続葉有]



SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
UZ, VC, VN, YU, ZA, ZM, ZW.

TR), OAPI 特許 (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

(84) 指定国 (広域): ARIPO 特許 (BW, GH, GM, KE, LS,
MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), ユーラシア特
許 (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), ヨーロッ
パ特許 (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,

添付公開書類:

— 国際調査報告書

2文字コード及び他の略語については、定期発行される
各PCTガゼットの巻頭に掲載されている「コードと略語
のガイダンスノート」を参照。

アームフレーム8の下方回転により直径が短くなり、アームフレーム8の上方回転により直径が大きくなる。アームフレーム8が所定位置を越えて上方に回転すると前記第2脚部11Cは窓部41との当接によりシートバックフレーム5のフック24内に導かれる。第2脚部11Cがフック24に係合した状態ではコイル部11Aの直径は大きくなった状態に保たれる。

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/16594

A. CLASSIFICATION OF SUBJECT MATTER
Int.C1⁷ A47C7/54

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.C1⁷ A47C1/00-31/12, B60N2/00-5/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-1996	Jitsuyo Shinan Toroku Koho	1996-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Toroku Jitsuyo Shinan Koho	1994-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2003-33252 A (Kabushiki Kaisha Otikusu), 04 February, 2003 (04.02.03), All pages; all drawings (Family: none)	1-3
A	CD-ROM of the specification and drawings annexed to the request of Japanese Utility Model Application No. 47411/1992 (Laid-open No. 13253/1993) (Tachi-S Co., Ltd.), 23 February, 1993 (23.02.93), All pages; all drawings (Family: none)	1-3

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
12 February, 2004 (12.02.04)Date of mailing of the international search report
24 February, 2004 (24.02.04)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/16594

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ A47C7/54

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ A47C1/00-31/12, B60N2/00-5/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1926-1996 Jitsuyo Shinan Toroku Koho 1996-2003
Kokai Jitsuyo Shinan Koho 1971-2003 Toroku Jitsuyo Shinan Koho 1994-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
AA A	JP 2003-33252 A (Kabushiki Kaisha Otikusu), 04 February, 2003 (04.02.03), All pages; all drawings (Family: none)	1-3
AB A	CD-ROM of the specification and drawings annexed to the request of Japanese Utility Model Application No. 47411/1992 (Laid-open No. 13253/1993) (Tachi-S Co., Ltd.), 23 February, 1993 (23.02.93), All pages; all drawings (Family: none)	1-3

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
12 February, 2004 (12.02.04)

Date of mailing of the international search report
24 February, 2004 (24.02.04)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.